

SOUTH CENTRAL RAILWAY



Office of the Divl. Rly. Manager
Personnel Branch, 4th Floor
Sanchalan Bhavan,
Secunderabad
Date: 02.12.2020

No.SCR/P-SC/210(a)/Chief Instructor/EM

Sr. DPOs/BZA, GTL, HYB
DPO/Co-ord/GNT, NED
WPOs/LGDS, RYPS, TPYS
SPO/CN/SC, SPO/RE/SC, APO/MFT/SC
Sr. DME/DSL/KZJ, Sr. DME/DSL/MLY, Sr.DME/DSL/GY, Sr.DME/DSL/GTL, Sr.DME/DSL/BZA
Principal/STC/SC, Principal/DTTC/KZJ

NOTIFICATION

Sub:- Filling up of three vacancies (2-Mechanical wing and 1-Electrical wing) of Ex-cadre posts of Senior Training Instructors (STI) with Level 6 of 7th CPC Pay Matrix at DTTC/KZJ by calling volunteers from JE/Dsl-Mechanical & JE/Dsl-Electrical working on SCR on tenure basis.

It is proposed to fill up three Ex-cadre posts of Senior Training Instructors (STI) with Level 6 of 7th CPC Pay Matrix at DTTC /KZJ of Secunderabad Division by holding a selection by calling volunteers from the eligible staff working in identical Level -6 of 7th CPC pay matrix i.e, JE/Dsl-Mechanical & JE/Dsl-Electrical in level-6 of 7th CPC from all Divisions/Units of SCR.

ELIGIBILITY CONDITIONS (in terms of RBE No. 79/2019):

Name of the Post	No. of posts to be filled	Eligibility Criteria
STI/Mechanical	2 posts	1. Regular JE/DSL-Mechanical working with Level 6 of 7th CPC Pay Matrix. 2. Upper age as on the date of notification should be 52 years. 3. The staff working as JE/DSL (Mechanical) in identical scale/level i.e. with Level-6 are only eligible to volunteer to the post of STI/Mech.
STI/Electrical	1 post	1. Regular JE/DSL-Electrical working with Level 6 of 7th CPC Pay Matrix. 2. Upper age as on the date of notification should be 52 years. 3. The staff working as JE/DSL (Electrical) in identical scale/level i.e. with Level-6 are only eligible to volunteer to the post of STI/Elec.

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SELECTION PROCESS:

- 1) There will be written examination (75 marks) and all those candidates who score not less than 60% marks in written test (professional ability) should be called for a Class room lecture trial (25 marks) (RBE 39/2020).
- 2) Committee constitution will be in terms of RBE No. 93/2018. Principal/Head of the Training Institute will be associated in class room trial. Thus the selection process will evaluate the knowledge as well as communication skill of the candidates as both are required for the post of Instructors.
- 3) Maximum Marks: 100, Qualifying Marks: 60% (aggregate of Written Test and class room trail).
- 4) Panel will be drawn in the order of merit.

TENURE & PLACE OF POSTING:

Minimum 3 years and maximum of 8 years. Place of posting will be Diesel Traction Training Centre, Kazipet.

PAY FIXATION & TEACHING ALLOWANCE:

As the selection is in the identical scale i.e. Level-6, the employees selected for the post of Senior Training Instructors are not eligible for any fixation of pay. However, the employees selected for the post of STI are eligible for the Teaching Allowance of 12% of basic Pay in terms of Railway Board's letter No. E(MPP)2012/3/28 dated 6.10.2017.

PATTERN OF WRITTEN EXAMINATION:

1. In terms of Railway Board's letter No. E(NG)/2018/PM1/4 dated 14.12.2018 (RBE No.196/2018) (PCPO/SC's SC No.212/2018), the written examination consists of 100% objective type with multiple choice only. The syllabus for Written Test for selection to the post of STI (Mechanical) is enclosed as **Annexure – 'B'** and the syllabus for selection to the post of STI (Electrical) is enclosed as **Annexure – 'C'**.
2. There shall be negative marking of incorrect answers. 1/3rd of marks allotted for each question will be deducted for wrong answers. (RBE No. 194/2019).
3. The Question paper will be with 110 questions including 10 marks on official language policy and rule (optional). If, candidates write more than 100 questions first 100 questions will only be evaluated.

OTHER TERMS AND CONDIDITIONS:

- a) The post of Senior Training Instructor is an Ex-Cadre post, hence all the three posts are un-reserved.
- b) The eligible employees who are willing to volunteer for the above posts shall submit their application in the prescribed format enclosed as **Annexure-A** to their respective supervisor.
- c) Those who have volunteered will not be allowed to withdraw their applications at a later date and should be in readiness to appear for written examination/Classroom lecture trial. The class room trail will be conducted at DTTC/KZJ.

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- d) The applicants should have good training capability, good academic background, practical experience in teaching and capacity to prepare the course material.
- e) Applicant should be a good communicator, sensitive to the need of people, resilient, open minded, perceptive, honest, committed and motivated.
- f) Employees working in ex-cadre post and also employees who have worked in the ex-cadre posts including the post of Instructors in any grade and not completed the cooling off period of one year from the date of repatriation are not eligible to apply. The employees working in levels (higher/lower) other than Level-6 are not eligible to apply.
- g) The employees selected for the post of Senior Training Instructor will be repatriated on completion of 8 years of maximum tenure without waiting for the reliever. The tenure period beyond 8 years will not be extended in any case under any circumstances.
- h) The employees posted as Instructor will be repatriated to their parent cadre at least 6 months prior to the date of their superannuation before completion of their maximum tenure period.
- i) If the performance of the employees selected as STI is not satisfactory, they will be repatriated to their parent cadre immediately, at any point of time.
- j) Since the selection is conducted by calling volunteers, no supplementary written examination will be held under any circumstances.
- k) Cutting, over writing, erasing or alteration of any type in the answer will not be accepted. Zero marks will be given for answer having correction or overwriting.
- l) The willing eligible employees who fulfill the eligibility conditions are required to apply in prescribed format enclosed as **Annexure-A** through their controlling supervisors to the Controlling Officer **on or before 01.01.2021**.

Controlling officer may verify the particulars mentioned in the application and certify the eligibility duly endorsing in the application and forward the application along with enclosures to the concerned Personnel Branch by 05.01.2021. Personnel Branch to verify the details mentioned in the application with SR of the employees and forward all the applications in one bunch to this office so as to reach APO/ Bills /SC in Sr.DPO/O/SC, 4th floor Sanchalan Bhavan Secunderabad, on or before 08.01.2021. If no application is received a NIL report may be sent to this office by 08.01.2021. Applications received after due date will not be entertained under any circumstances. Applications received directly without certification or not through proper channel will be summarily rejected.

- m) The applicants may visit web site www.scr.indianrailways.gov.in → about us → Divisions → Secunderabad → Personnel → Notifications and Results - for notification, application form in Annexure – A & Syllabus in Annexure – B & C.

Wide publicity to be given to the said notification.

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डी नरसिम्हा
(D.NARASIMHA)
APO/SC
for Sr DPO/SC

C/- PCPO/SC → for kind information please.

ANNEXURE-A

Application for the post of Senior Training Instructor (STI)/ _____ (Please mention the wing clearly) with Level 6 of 7th CPC Pay Matrix at DTTC/KZJ, SC Division on tenure basis.

Affix recent photograph duly attested by controlling officer

1	Name of the employee (as per SR)	
2	Father's name	
3	PF No	
4	Date of Birth (DD/MM/YYYY)	
5	Date of Appointment (DD/MM/YYYY)	
6	Present Designation/ Station/Division	
7	Present Level in 7th CPC	
8	Date of entry into present Level	
9	Whether regular or Ad-hoc	
10	Whether worked in ex-cadre post	Yes / No If yes, period from _____ to _____
11	Educational Qualification Academic /Technical	
12	Whether Belong to SC / ST	
13	Details of training if any undergone	
14	Details of teaching / field (practical) experience if any	
15	Other experience like participation in seminars and writing skills etc	
16	Railway contact No. & Mobile number	

I hereby declare that all the above details are correct to the best of my knowledge and belief I am also aware that, if any information mentioned above found incorrect in future, my candidature is liable for rejection. I also state that I will not back track for the ex-cadre post of STI (Senior Training Instructors), DTTC/KZJ if, I get selected.

Place:

Date:

Signature of the Applicant

Verified and certified that particulars furnished above are correct.

There are no DAR/SPE/Vig. Cases pending against the above employee.

Controlling Officer sign. with stamp

Syllabus for the Post of CTI/STI-DSL-Mech**Annexure: B**

1. General principle of IC Engines.
2. Classification of IC engines. Merits and de-merits of CI and SI engines.
3. Features of Alco and HHP engines and power flow diagram.
4. Various types of transmission systems.
5. Principles of super charging and advantages of super charging.
6. Fuel oil system, Air intake system, Cooling water system, and Lube oil system in ALCO and HHP locomotives.
7. Function of Fuel Injection Pump and Injector.
8. General idea of laboratory working in diesel sheds.
9. Maintenance schedules of diesel locos and their importance (Alco/HHP locos).
10. General principles of electricity; Principle of working of Motor, Generator/Alternator, Battery etc.
11. Knowledge of Circuitry such as cranking, wheel slip etc.
12. Sound knowledge of circulars issued to Drivers from time to time.
13. Outline of maintenance procedure of important equipments such as injection equipment, brake equipment etc.
14. Function of Governor and its importance. Various types of governors in DE locomotives.
15. Dynamic Brake – Working and advantages.
16. Various safety devices in ALCO and HHP locomotives and their working.
17. Examination of ALCO and HHP locomotives.
18. Troubleshooting in detail of all Mech. And Elec. Items (Alco/HHP locos)
19. Transition in Alco locomotive. Knowledge of various circuit breakers in ALCO and HHP locomotives.
20. Working of Air Brake systems IRAB1, CCB1.5 and CCBII
21. Working of Vigilance systems.
22. AAR classification of locomotive types CO-CO, BO-BO.
23. Latest developments in diesel locomotives (Alco/HHP locos).

OPERATION (Alco/HHP locos) :

1. Knowledge of operational features involved in diesel loco operation.
2. Usage of Dynamic Brake.
3. Fuel Economy – How to educate drivers to achieve Fuel economy. Factors affecting fuel economy and how to overcome them.
4. MU operation.
5. Banking precautions.
6. Fuel installation details & working.

GENERAL:

As per extant instructions at least 10% of the total marks prescribed for the written test should be on official language policy and rules on optional basis.

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Syllabus for the Post of CTI/STI-DSL-ELEC.

Annexure: C

1. Diesel rail traction – General principles – Relative merits and demerits compared to other mode of traction.
2. Need to operate transmission system in a diesel electric locomotive. Types of transmission in use. Relative merits of diesel electric transmission system with diesel hydraulic transmission system.
3. Diesel Electric locomotives – Types and standard notations adopted. Use of monomotor bogies and nose suspended different types of suspension in use.
4. Continuous rating and sustained attractive effort/dynamic brake effort of diesel electric locos their significance and evaluation- Valuation of load haulage ability and controlling ability of diesel electric locomotives.
5. knowledge of different types of diesel electric locomotives in use- the characteristics and suitability for adoption types of services.
6. Through knowledge of different types of excitation system provided on diesel electric locomotives and methods of governing power plants systems-Electro hydraulic governor MCBG and its functioning.
7. Application of semi-conductor components in the diesel electric locomotives control system – comparative advantage – Principles of working transistor circuits.
8. Knowledge of specification of different equipment in use in the diesel electric locomotives – Insulating materials used and their specification – selection of suitable material and their requirements – cleaning solvents used their requirements.
9. Load testing of locomotives – Objects of conducting load test significance of the different readings and adjustment to be made, horse power limit and current limit test, efficient calculation, etc.
10. Estimation of power requirements for the different service equipments provided in the sheds/shops. Designing power system layout for a repair shop including sub-station capacity, location-etc.
11. Fuel economy – estimation of fuel consumption – factors affecting fuel consumption.
12. Indian electricity Act & Rules – working knowledge regarding compliance with Indian electricity Act & Rules – precautions to be taken in the installation of electric equipments electrical accident and procedure for reporting for reporting the same both under the Indian electricity Act and under the regulations for safe working of electrical equipment on Indian railways.
13. knowledge of repair methods – reclamation techniques for components used on the locomotives – sound knowledge of testing of different types of locomotives – knowledge of insulation characteristics and amperage.
14. Trends in the development of diesel locos – channels of transmission systems, detailed knowledge of modifications.
15. Working of voltage regulators – clear understanding of various types of voltage regulators available and understanding of the circuitry of the IC version of the voltage regulators.
16. Maintenance schedules-General principles of formulating the same and sound knowledge of the schedules maintenance practices- sound knowledge of trouble shooting of the electric circuits and components.
17. Advance appreciation of semi-conductor devices in the transistors - and also familiarity with IC engines and their catalogue.
18. Detailed knowledge of kits for electronic parts provided on the locomotives. (Both Alco & HHP locos).
19. Detailed knowledge of auto flasher, VCD, Speedometer and other safety devices on the loco.
20. Detailed knowledge of modifications/ add on units such as APU, CReDI, REMMLLOT, DPCS & TCAS.

General:

As per extant instructions at least 10% of the total marks prescribed for the written test should be on official policy and rules on optional basis.

Signature
25/5/2020